

## DUAL PRESS-FIT WRAP SPRING CLUTH

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### Abstract

A wrap spring clutch including a drive shaft, an output hub, a shoulder, a hub, a wrap spring, a bushing, and a control ring. The drive shaft is configured to rotate about an axis. The output hub is mounted over the drive shaft and is configured with a first groove. The shoulder is fixed to the drive shaft and  
10 configured to rotate therewith. The hub is fixed to the drive shaft and is configured to rotate therewith. The wrap spring is helically wrapped about the drive shaft and over the hub. The wrap spring also includes a first wrap end and a second wrap end. The first wrap end is press fit into the first groove. The bushing is mounted over the drive shaft and the bushing has a first portion and a  
15 second portion. The first portion is coupled between the drive shaft and the second wrap end. The control ring is mounted over the drive shaft and fixed to the second portion of the bushing thereby defining a second groove. The second wrap end is press fit into the second groove. The control ring is controllably pulled against the shoulder causing the wrap spring to wrap down onto the hub  
20 such that the drive shaft and output hub rotate together.